

0590
1205#2
OIPERAW SEQUENCE LISTING
PATENT APPLICATION: US/09/904,536DATE: 01/02/2002
TIME: 15:02:29Input Set : N:\Crf3\RULE60\09904536.raw
Output Set: N:\CRF3\01022002\I904536.raw

1 <110> APPLICANT: Graddis, Thomas J.
 2 McGrew, Jeffrey T.
 3 <120> TITLE OF INVENTION: FLT3-L MUTANTS AND METHODS OF USE
 4 <130> FILE REFERENCE: 03260.0028
 5 <140> CURRENT APPLICATION NUMBER: 09/904,536
 6 <141> CURRENT FILING DATE: 2001-07-16
 8 <150> PRIOR APPLICATION NUMBER: PRIOR APPLICATION: 09/109,100
 9 <151> PRIOR FILING DATE: 1999-07-02
 11 <160> NUMBER OF SEQ ID NOS: 20
 12 <170> SOFTWARE: PatentIn Ver. 2.1
 14 <210> SEQ ID NO: 1
 15 <211> LENGTH: 235
 16 <212> TYPE: PRT
 17 <213> ORGANISM: Homo sapiens
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 21 Leu Leu Leu Ser Ser Gly Leu Ser Gly Thr Gln Asp Cys Ser Phe
 22 20 25 30
 23 Gln His Ser Pro Ile Ser Ser Asp Phe Ala Val Lys Ile Arg Glu Leu
 24 35 40 45
 25 Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val Thr Val Ala Ser Asn Leu
 26 50 55 60
 27 Gln Asp Glu Glu Leu Cys Gly Leu Trp Arg Leu Val Leu Ala Gln
 28 65 70 75 80
 29 Arg Trp Met Glu Arg Leu Lys Thr Val Ala Gly Ser Lys Met Gln Gly
 30 85 90 95
 31 Leu Leu Glu Arg Val Asn Thr Glu Ile His Phe Val Thr Lys Cys Ala
 32 100 105 110
 33 Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe Val Gln Thr Asn Ile Ser
 34 115 120 125
 35 Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu Val Ala Leu Lys Pro Trp
 36 130 135 140
 37 Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu Glu Leu Gln Cys Gln Pro
 38 145 150 155 160
 39 Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser Pro Arg Pro Leu Glu Ala
 40 165 170 175
 41 Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu Leu Leu Leu Leu Leu
 42 180 185 190
 43 Pro Val Gly Leu Leu Leu Ala Ala Ala Trp Cys Leu His Trp Gln
 44 195 200 205
 45 Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly Glu Gln Val Pro Pro Val
 46 210 215 220
 47 Pro Ser Pro Gln Asp Leu Leu Leu Val Glu His
 48 225 230 235
 50 <210> SEQ ID NO: 2
 51 <211> LENGTH: 988

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101 Pro Gly Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu
102 220 225 230
103 gtg gag cac tgacctggcc aaggcctcat cctgcggagc cttaaacaac 774
104 Val Glu His
105 235
106 gcagtgagac agacatctat catccattt tacagggag gatactgagg cacacagagg 834
107 ggagtccacca gccagaggat gtatagcctg gacacagagg aagttggcta gaggccggc 894
108 cttcccttgg gcccctctca ttccctcccc agaatggagg caacgccaga atccagcacc 954
109 ggcggcattt acccaactct gaacaaagcc cccg 988
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114 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
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126 <400> SEQUENCE: 4
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129 <210> SEQ ID NO: 5
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133 <220> FEATURE:
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137 cttcgcccg tgcctgg 77
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143 <220> FEATURE:
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145 oligonucleotide
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151 <212> TYPE: DNA
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154 <223> OTHER INFORMATION: Description of Artificial Sequence: constructed

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 166 Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
 167 20 25 30
 168 Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp
 169 35 40 45
 170 Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala
 171 50 55 60
 172 Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His
 173 65 70 75 80
 174 Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
 175 85 90 95
 176 Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
 177 100 105 110
 178 Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
 179 115 120 125
 180 Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
 181 130 135 140
 182 Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu
 183 145 150 155 160
 184 Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Leu Ala Ala Ala
 185 165 170 175
 186 Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly
 187 180 185 190
 188 Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu
 189 195 200 205
 190 His
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 193 <211> LENGTH: 209
 194 <212> TYPE: PRT
 195 <213> ORGANISM: Homo sapiens
 196 <400> SEQUENCE: 9
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 199 Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val
 200 20 25 30
 201 Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp
 202 35 40 45
 203 Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Thr
 204 50 55 60
 205 Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His

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206 65 70 75 80
 207 Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
 208 85 90 95
 209 Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
 210 100 105 110
 211 Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
 212 115 120 125
 213 Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
 214 130 135 140
 215 Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu
 216 145 150 155 160
 217 Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Leu Ala Ala Ala
 218 165 170 175
 219 Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly
 220 180 185 190
 221 Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu
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 226 <211> LENGTH: 212
 227 <212> TYPE: PRT
 228 <213> ORGANISM: Homo sapiens
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 232 Asp Phe Ala Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp
 233 20 25 30
 234 Tyr Pro Val Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly
 235 35 40 45
 236 Gly Leu Trp Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys
 237 50 55 60
 238 Thr Val Ala Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr
 239 65 70 75 80
 240 Glu Ile His Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys
 241 85 90 95
 242 Leu Arg Phe Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser
 243 100 105 110
 244 Glu Gln Leu Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser
 245 115 120 125
 246 Arg Cys Leu Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro
 247 130 135 140
 248 Pro Trp Ser Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln
 249 145 150 155 160
 250 Pro Pro Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Leu
 251 165 170 175
 252 Ala Ala Ala Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro
 253 180 185 190
 254 Arg Pro Gly Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu
 255 195 200 205

VERIFICATION SUMMARY

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